

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE



Application No.: 10/661,670
Filing Date: September 15, 2003
Applicant: Yigal BEJERANO et al.
Group Art Unit: Unknown
Examiner: Unknown
Title: METHODS AND DEVICES FOR GROUPING CELLS
Attorney Docket: 29250-000998/US

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

December 8, 2003

INFORMATION DISCLOSURE STATEMENT

Sir:

Pursuant to 37 C.F.R. §§ 1.56, 1.97 and 1.98, Applicant hereby submits an Information Disclosure Statement for consideration by the Examiner.

I. LIST OF PATENTS, PUBLICATIONS, AND OTHER INFORMATION

The patents, publications and other information submitted for consideration by the Office (except unpublished U.S. patent applications) are listed on Form 1449 attached hereto.

II. COPIES

A. ☐ Submitted herewith is a legible copy of (i) each U.S. patent application publication and U.S. and foreign patent; (ii) each publication or that portion which caused it to be listed; (iii) for each cited pending U.S. application, the application specification including the claims, and any drawing of the application which caused it to be listed including the claims directed to that portion; and (iv) all other information or that portion which caused it to be listed.

B. ☐ Any patents, publications or other information which are listed on Form 1449 or on the copies of PTO-892, but which are not enclosed herewith, were previously cited by or submitted to the PTO in one of the following applications which has been relied upon for an earlier filing date under 35 U.S.C. § 120:

U.S. Serial Number

U.S. Filing Date

C. ☐ Because the present application was/is being filed after June 30, 2003, no copies of the U.S. patents or U.S. patent application publications which are listed on the attached Form 1449 are enclosed pursuant to the waiver of 37 C.F.R. § 1.98(a)(2)(i). Any foreign patent documents or non-patent literature listed on the attached Form 1449 are enclosed herewith.

D. ☐ This is a PCT application in the entry of the National Phase in the United States. A copy of the International Search Report is attached for the Examiner's information. The documents listed on the International Search Report are listed on the attached Form-1449 for consideration by the Examiner and for listing on any patent resulting from this application. Since the International Search Report was from the US, EPO, or JPO search authorities, copies of these references should have been supplied to the USPTO under the trilateral agreement and are believed to be in the file of the above-identified application. (MPEP 1893.03(g))

III. CONCISE EXPLANATION OF THE RELEVANCE (check at least one box)

A. ☒ Except as may be indicated below in (B), all of the patents, publications or other information are in the English language (concise explanation not required).

B. ☐ A concise explanation of the relevance of each patent, publication or other information listed that is not in the English language is as follows (see 37 C.F.R. § 1.98(a)(3)):

1. ☐ See the attached foreign patent office communication from a counterpart foreign application:
2. ☐ English translations are provided for:
3. ☐ Other:

C. ☐ The following additional information is provided for the Examiner's consideration.

IV. CROSS REFERENCE TO RELATED APPLICATION(S)

A. ☐ The Examiner is advised that the following co-pending application(s) contain(s) subject matter that may be related to the present application. By bringing this(these) application(s) to the Examiner's attention, Applicant(s) does(do) not waive the confidentiality provisions of 35 U.S.C. § 122.

Serial No.

Filing Date

Art Unit

V. THIS IDS IS BEING FILED UNDER

A. ☒ 37 C.F.R. § 1.97(b): (check only one box)

1. ☒ within three months of the filing date of a national application other than a continued prosecution application under § 1.53(d) (37 C.F.R. § 1.97(b)(1)). No fee or certification is required.

2. ☐ within three months of the date of entry of the national stage as set forth in §1.491 in an international application (37 C.F.R. § 1.97(b)(2)). No fee or certification is required.

3. ☐ before the mailing of a first Office Action on the merits (37 C.F.R. § 1.97(b)(3)). No fee or certification is required. In the event that a first Office Action on the merits has been issued, please consider this IDS under 37 C.F.R. § 1.97(c) and see the certification under 37 C.F.R. § 1.97(e) below; or, if no certification has been made, charge our deposit account a fee in the amount of \$180.00 as required by 37 C.F.R. § 1.17(p).

4. ☐ before the mailing of a first Office Action after the filing of a request for continued examination under 37 C.F.R. § 1.114. No fee or certification is required.

B. ☐ 37 C.F.R. § 1.97(c): (check only one box)

☐ before the mailing date of either any Final Office Action under 37 C.F.R. § 1.113, a Notice of Allowance under 37 C.F.R. § 1.311, or an action that otherwise closes prosecution.

1. ☐ No certification; therefore, a fee in the amount of \$180.00 is required by 37 C.F.R. § 1.17(p).

2. ☐ See the certification below. No fee is required.

C. ☐ 37 C.F.R. § 1.97(d):

☐ after the mailing date of either a Final Office Action under 37 C.F.R. § 1.113 or a Notice of Allowance under 37 C.F.R. § 1.311, yet on or before payment of the issue fee.

1. ☐ See the certification below. A fee in the amount of \$180.00 is required by 37 C.F.R. § 1.17(p).

VI. CERTIFICATION UNDER 37 C.F.R. § 1.97(e): (check only one box)

The undersigned hereby certifies that:

- A. ☐ each item of information contained in this IDS was first cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this IDS (See 37 C.F.R. § 1.97(e)(1)). See further statement under 37 C.F.R. 1.704(d) below in section VII, if applicable; or
- B. ☐ no item of information contained in this IDS was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the undersigned after making reasonable inquiry, no item of information contained in this IDS was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this IDS (See 37 C.F.R. § 1.97(e)(2)).
- C. ☐ Some of the items of information were first cited in a communication from a foreign patent office. As to this information, the undersigned hereby certifies that each item of information contained in this IDS was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this IDS. As to the remaining information, the undersigned hereby certifies that no item of this remaining information contained in this IDS was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the undersigned after making reasonable inquiry, no item of information contained in this IDS was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this IDS.

VII. STATEMENT UNDER 37 CFR 1.704(d)

The undersigned hereby states that:

☐ each item of information contained in this IDS was cited in a communication from a foreign patent office in a counterpart application and this communication was not received by any individual designated in 37 C.F.R. 1.56(c) more than thirty days prior to the filing of this IDS.

VIII. PAYMENT OF FEES (check only one box)

- A. ☐ A check in the amount of \$180.00 is enclosed for the above-identified fee.
- B. ☐ Please charge Deposit Account No. 08-0750 in the amount of \$180.00 for the above-indicated fee. A duplicate copy of this paper is attached.

The above references are being cited only in the interest of candor and without any admission that they constitute statutory prior art, contain matter which anticipates the invention, or which would render the same obvious, either singly or in combination, to a person of ordinary

skill in the art. Furthermore, this Information Disclosure Statement shall not be construed as a representation that a search has been made.

If it is determined that this IDS has been filed under the wrong rule, the PTO is requested to consider this IDS under the proper rule (with a petition if necessary) and charge the appropriate fee to Deposit Account No. 08-0750.

Please charge any additional fees or credit any overpayment pursuant to 37 C.F.R. § 1.16 or § 1.17 to Deposit Account No. 08-0750.

Respectfully submitted,

HARNESS, DICKY, & PERCE, P.L.C.

By



John E. Curtin, Reg. No. 37,602

P.O. Box 8910
Reston, Virginia 20195
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Enclosures:



Form PTO-1449(s)



Documents



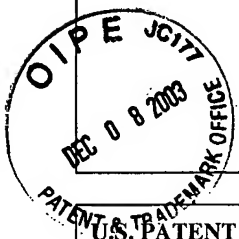
Foreign Search Report



Fee



Other:



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PATENT AND TRADEMARK OFFICE
INFORMATION DISCLOSURE CITATION
(Use several sheets if necessary)

Sheet 1 of 7

ATTORNEY DOCKET NO.

SERIAL NO.

29250-000998/US

10/661,670

APPLICANT

Yigal BEJERANO et al.

FILING DATE

GROUP

09/15/2003

Unknown

U.S. PATENT DOCUMENTS

Ref. Desig.	Examiner's Initials	Document Number	Date	Name	Class/ Subclass	(If appropriate) Filing Date

FOREIGN PATENT DOCUMENTS

Ref. Desig.	Examiner's Initials	Document Number	Date	Country	Class/ Subclass	Translation Yes	No

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, etc.)

Ref. Desig.	Examiner's Initials	
		M. Mouly and M. B. Pautet. <i>The GSM System For Mobile Communication</i> . Telecom Publishing, France, June 1992.
		I. F. Akyildiz, J. McNair, J. S. M. Ho, H. Uzunalioglu, and W. Wang. Mobility management in next generation wireless systems. <i>IEEE Proceedings Journal</i> , 87(8):1347-1385, August 1999.
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		S. Okasaka, S. Onoe, S. Yasuda, and A. Maebara. A new location updating method for digital cellular systems. In <i>Proceeding of the IEEE 41st Vehicular Technology Conference, VTC'41</i> , pages 345-350, St. Louis, Missouri, May 1991.
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		C. Rose and R. Yates. Minimizing the average cost of paging under delay constraints. <i>ACM-Baltzer Journal of Wireless Networks</i> , 1(2):211-219, July 1995.

Examiner:

Date Considered:

EXAMINER: Please initial if citation considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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Ref. Desig.	Examiner's Initials	
		Y. Bejerano and I. Cidon. Efficient location management based on moving location areas. In <i>Proceedings of IEEE INFOCOM'01</i> , pages 3-12, Anchorage, Alaska, USA, April 2001.
		Hai Xie, Sami Tabbane, and David J. Goodman. Dynamic location area management and performance analysis. In <i>Proceeding of the IEEE 43rd Vehicular Technology Conference, VTC'43</i> , pages 536-539, May 1993.
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Ref. Desig.	Examiner's Initials	
		V. Wong and V. Leung. Location management for next-generation personal communications network. <i>IEEE Network</i> , pages 18-24, September/October 2000.
		R. Thomas, H. Gilbert and G. Mazziotto. Influence of the moving of the mobile stations on the performance of a radio mobile cellular network. In <i>Proceedings 3rd Nordic Seminar</i> , Copenhagen, Denmark, September 1998.
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		P. R. L. Gondim. Genetic algorithm and the location area partition problem in cellular networks. In <i>Proceeding of the IEEE 46th Vehicular Technology Conference, VTC'96</i> , volume 3, pages 1835-1838, 1996.

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Ref. Desig.	Examiner's Initials	
		P. Demestichas, E. Tzifa, V. Demesticha, N. Georgantas, G. Kotsakis, M. Kilanioti, M. Striki, M. E. Anagnostou, and M. E. Theologou. Control of the location update and paging signaling load in cellular systems by means of planning tools. In <i>Proceeding of the IEEE 49th Vehicular Technology Conference, VTC'99</i> , volume 4, pages 2119-2123, 1999.
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		M. R. Garey and D. S. Johnson, <i>Computers and Intractability: A Guide to the Theory of NP-completeness</i> . Freeman Publication, New York, 1979.

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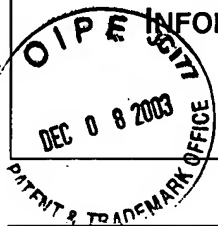
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Ref. Desig.	Examiner's Initials	
		M. M. Deza and M. Laurent. <i>Geometry of cuts and metrics</i> . Springer-Verlag, Berlin-Heidelberg, 1997.
		V. V. Vazirani. <i>Approximation algorithms</i> . Springer-Verlag, 2001.
		V. V. Vazirani, N. Garg and M. Yannakakis. Approximate max-flow min-(multi) cut theorems and their applications. <i>SIAM J. Computing</i> , 25-235-251, 1996.
		S. Plotkin, P. Klein, and S. Rao. Excluded minors, network decomposition, and multicommodity flow. In <i>Proceeding of the 25th ACM symposium on Theory of Computing</i> , pages 682-690, 1993.
		E. Tardos and V. V. Vazirani. Improved bounds for the max-flow min-multicut for planar and $k_{r,r}$ -free graphs. <i>Information Processing Letters</i> , 47:77-80, 1993.
		B. Efron and R. J. Tibshirani. <i>An Introduction to the Bootstrap</i> . Chapman & Hall, New York, NY, first edition, 1993.
		Moses Charikar, Venkatesan Guruswami, and Anthony Wirth. Clustering with qualitative information. <i>IEEE Symposium on Foundations of Computer Science</i> , 2003.
		Erik D. Demaine and Nicole Immorlica. Correlation clustering with partial information. <i>Approximation Algorithms for Combinatorial Optimization Problems (APPROX)</i> , 2003.

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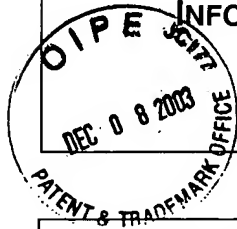
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Ref. Desig.	Examiner's Initials	
		Dotan Emmanuel and Amos Fiat. Correlation clustering – minimizing disagreements on arbitrary weighted graphs. <i>European Symposium on Algorithms</i> , 2003.
		Nikhil Bansal, Avrim Blum, and Shuchi Chawla. Correlation clustering, <i>IEEE Symposium on Foundations of Computer Science</i> , 2002.

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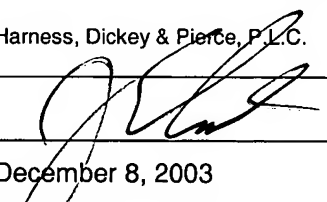
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Application Number	10/661,670
Filing Date	September 15, 2003
First Named Inventor	Yigal BEJERANO
Group Art Unit	Unknown
Examiner Name	Unknown
Attorney Docket Number	29250-000998/US

ENCLOSURES (check all that apply)

<input type="checkbox"/> Fee Transmittal Form <input type="checkbox"/> Fee Attached <input type="checkbox"/> Amendment <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s) <input type="checkbox"/> Extension of Time Request <input type="checkbox"/> Express Abandonment Request <input checked="" type="checkbox"/> Information Disclosure Statement <input type="checkbox"/> Certified Copy of Priority Document(s) <input type="checkbox"/> Response to Missing Parts/Incomplete Application <input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53	<input type="checkbox"/> Assignment Papers (for an Application) <input type="checkbox"/> Letter to the Official Draftsperson and Sheets of Formal Drawing(s) <input type="checkbox"/> Licensing-related Papers <input type="checkbox"/> Petition <input type="checkbox"/> Petition to Convert to a Provisional Application <input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address <input type="checkbox"/> Terminal Disclaimer <input type="checkbox"/> Request for Refund <input type="checkbox"/> CD, Number of CD(s) _____	<input type="checkbox"/> After Allowance Communication to Group <input type="checkbox"/> LETTER SUBMITTING APPEAL BRIEF AND APPEAL BRIEF (w/clean version of pending claims) <input type="checkbox"/> Appeal Communication to Group (Notice of Appeal, Brief, Reply Brief) <input type="checkbox"/> Proprietary Information <input type="checkbox"/> Status Letter <input checked="" type="checkbox"/> Other Enclosure(s) (please identify below): <p style="text-align: center;">PTO Form 1449</p>
<div style="border: 1px solid black; padding: 5px; min-height: 100px;"> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;">Remarks</div> </div>		

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm or Individual name	Harness, Dickey & Pierce, P.L.C.	Attorney Name John E. Curtin	Reg. No. 37,602
Signature			
Date	December 8, 2003		